

The

561
7981 - 8028 ✓



No. 35



Made Under One or More of The Following U. S.
Patents 2051477-2123149-2147369-2300544



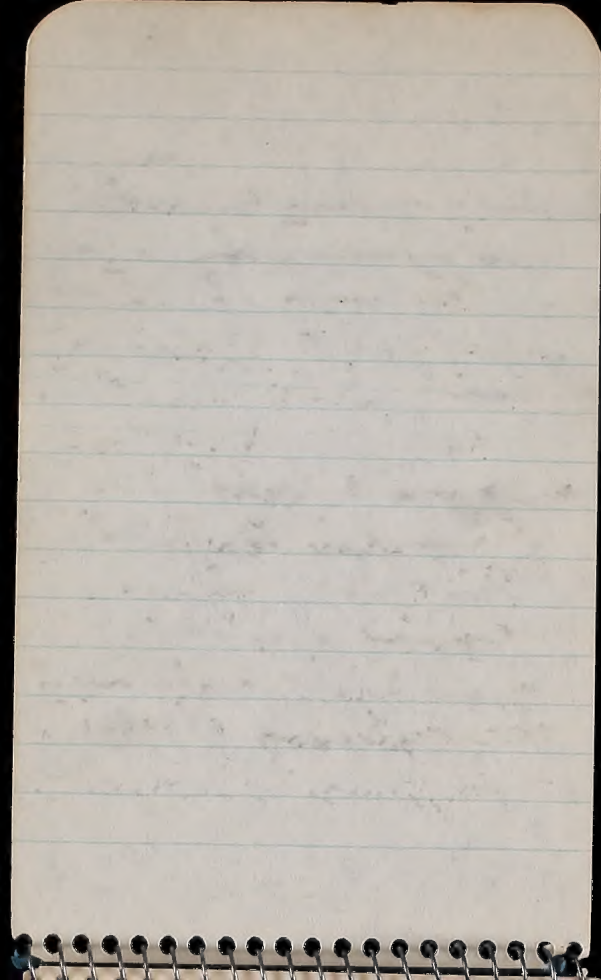
Property of

Arthur Cronquist
New York Botanical
Garden

Bronx Park
New York 58, N.Y.

Please return.

U. 561



7981 - July 25, 1955

Among jumbled ~~granitic~~^{metakitic} boulders at small summit on top of Beartooth Mts. about 25 miles south-west of Red Lodge, Carbon Co., Mont.; immediately adjacent to the Wyoming state line, and overlooking Wyoming Creek from the west. Twp. 9 S., R. 19 E., S. 32. Elev. 10,500 feet. Plants ^{metakitic} stippled, with a branching caudex. Flowers blue.

Polemonium viscosum Nutt.

3102

Polemonium viscosum (20)

1982 - July 25, 1955

Gentle, open granitic
slopes atop Bear Tooth
Mts., immediately
adjacent to the Wyoming
state line, and over-
looking Wyoming Creek
from the west; about
25 miles southwest of
Red Lodge, Carbon Co.,
Mont. Twp 9S., R. 19E.,
S. 32. Elev. 10,400 feet.

Plants ± taprooted, but
also spreading below-ground.
Flowers light purplish

Trifolium dasyphyllum T. & G.

clover (35) *T. dasyphyllum*

7983. July 25, 1955

Samolus 7982 ✓

Bracts ochroleucous or
rather light yellow to
coral or dull red-purple.

Castilleja pulchella Rydb.

dupl. det. Marion Ownbey

Castilleja (35)

7984 - July 26, 1955

In rather good soil of dry,
grassy sward on old mor-
aines along Rock Creek, 13
miles southwest of Red
Lodge, Carbon Co., Mont.
Twp. 9 S., R. 19 E., S. 8.
Elev. 7200 feet. Plants
with a taproot and branching
caudex, also tending to
creep underground and become
colonial, either by elongation
of the caudical branches or by
the production of running roots
from which new clusters are
formed. Rays white to pinkish.
Erigeron caespitosus Nutt.

Erigeron caespitosus (35)

7985 - July 26, 1955

Step, open, granitic southeast
slopes above Rock Creek; Bear-
tooth Mts. 13 miles southwest
of Red Lodge, Carbon Co., Mont.
Twp. 9S., R. 19E., S. 8. Elev.
7500 feet. Stems solitary
or several. Bracts bright
red. Corolla largely green.

Castilleja linariaefolia Benth.

Rupl. det. Marion Cronley

② *Castilleja linariaefolia*

7986 - July 26, 1955 ✓

Open, granitic, southeast
slopes along Rock Creek,
13 miles southwest of
Red Lodge, Carbon Co.,
Mont. Twp. 9 S., R. 19 E.,
S. 8. Elev. 7300 feet.
Bracts light greenish.

Castilleja longispica A. Nels.
det. Marion O'Conley ✓

Castilleja pale greenish (D)

7987 - July 26, 1955 ✓
Steep, sparsely wooded,
granitic southeast slope
along Rock Creek, 13
miles southwest of
Red Lodge, Carbon Co.,
Mont. Twp. 9S, R. 19E,
S. 8. Elev 7300 feet.
Widely and loosely ascending
shrub about 1 m. high.
Cones blue-glaucous

Juniperus horizontalis Moench,
passing toward *J. virginiana*
var. *scapularum*. Neither
pure *J. horizontalis*, nor, to
the best of my recollection, pure
J. w. scapularum seen nearby.

7988 - July 27, 1955

Open, granitic gentle
slopes above the Beartooth
Mts. immediately adjacent
to the Wyoming state
line, about 25 miles
southwest of Red Lodge,
Carbon Co., Mont. Twp. 9S.,
R. 19E., S 32. E. Elev. 10,400 ft.
Flowers ochroleucous.

Oxytropis campestris (L.) DC.
var. *Cusickii* (Greenm.)
Barneby

✓

Oxytropis . larger (35)

7989 - July 27, 1955

Same place as 7988.

Flowers all more or less withered, but evidently purple.

Oxytropis hesseyi (Rydb.)

Blank.

var. *argophylla* (Rydb.)

Barneby

Oxytropis lagopus Nutt.

var. *atropurpureus* (Rydb.)

Barneby

det. R. C. Barneby

Oxytropis (31)

7990 - July 27, 1955

Same place as 7988.

Phyllaries with very
dark margins.

Artemisia scopulorum Gray
✓

Artemisia - black st.

(35)

7991 - July 27, 1955

Same place as 7988. ~~Artemisia~~
commonly with a more or
less branched caudex, the
branches bearing fibrous roots
and only weakly confluent
into a short, poorly
defined taproot.

Artemisia campestris L.
ssp. *horvathii* (Ball.) Hall & Bon.
var. *horvathii*

Artemisia palmeri. (35)

7992 - July 27, 1955 ✓

Same place as 7988.

Root slightly to strongly thickened. Leaves withering as the fruits mature.

Lomatium montanum C. & R.

Lomatium (5)

7493 - July 27, 1955

In sheltered pockets of
soil among jumbled
granitic boulders on
small point atop the
Beartooth Mts., immedi-
ately adjacent to the
Wyoming state line,
25 miles south-west of
Red Lodge, Carbon
Co., Mont. Twp 9 S., R. 19 E.,
S. 32, Elev. 10,500 feet.

Plants with a taproot and
branching caudex. Flowers
blue or sometimes pink,
the limb rather widely flared.

Mertensia alpina (Torr.) G. Don

Mertensia alpina (35)

7994 - July 28, 1955

In pockets of soil
among jumbled granite boulders
on small point atop
Beartooth Mts. immediately
adjacent to the
Wyoming state line, 25
miles southwest of Red
Lodge, Carbon Co., Mont.
Twp. 9 S., R. 19 E., S. 32.

Elev. 10,500 feet. Plants
in large clusters from
heavy taproot and branching
caulophyll. Flowers blue.

Mertensia ciliata (Torr.) G. Don

Mertensia ciliata (33)

7995- July 18, 1955 ✓

Same place as 7994.

With the parents, but less abundant, and intermediate between them in habit, size and venation of the leaves, size and shape of the corolla, and insertion of the stamens.

Mertensia ciliata (Torr.) G. Don

X

M. alpina (Torr.) G. Don

Mertensia

7296 - July 28, 1955
Gentle, open, granitic
slopes atop the ~~Bea~~ Tooth
Mts., immediately ad-
jacent to the Wyoming
state line, 25 miles
southwest of Red Lodge,
Carbon Co., Mont. Twp.
9S, R. 19E, S. 32. Elev 10,500
feet. Stems solitary or ~~paired~~
paired, each with its own
rosette of basal leaves. Disk
orange; rays golden to orange.

Senecio fuscatus Hayek.

Senecio fuscatus

1997 July 28, 1995
Low, spreading shrub 1-3 dm.
tall on gentle, open, granitic
slopes atop the Bent tooth
Mts., immediately ad-
jacent to the Wyoming
state line, Carbon Co.,
Mont. Twp. 9S, R 19E,
S. 32. Elev 10,500 feet.
Leaves distinctly pale
beneath, greener but still
thinly hairy above, or
on occasional plants the
upper surface wholly
green and glabrous.
Salix pseudolappaceum v. *Seem.*

Salix (35)

7998 - July 28, 1955
Gentle, open, granitic
slopes atop the Bear-
Tooth Mts., immediately
adjacent to the Wyoming
state line, 25 miles
southwest of Red Lodge,
Carbon Co., Mont. Twp.
9S. R. 19E., S. 32. Elev.
10,400 feet. Plants
dioecious.

Carex pseudoscirpoides Rydb.

Carex (35)

308

7999 - July 29, 1955

Same place as 7998. ~~Elev.~~

10,500 feet. Stems mostly solitary, sometimes 2 or 3 together. Rays blue-lavender to more often nearly white.

Erigeron simplex Greene

Erigeron simplex

(33)

5300

29, 1957

Open, gently granitic
slopes atop the Bear
Tooth Mts., immediately
adjacent to the Wyoming
state line, 25 miles
southwest of Red Lodge,
Carbon Co., Mont. Twp.
9 S., R. 19 E., S. 32. Elev.
10,500 feet. Rays
blue-lavender

Aster alpigenus (T. & G.) Gray
var. *haydeni* (Porter) Cronq.



Aster alpigenus (19)

8001 - July 29, 1955

Same place as 8000. ✓

Pistillate and staminate
plants. Intermixtly
solitary.

Antennaria lanata (Hook.)
Greene

Antennaria lanata (22)

8002 - July 29, 1955
Same place as 8000. ✓

Besseyia wyomingensis
(A. Nels.) Rydb.

Besseyia (10)

8003. July 29, 1955
Same place as 8000.
Sepals light green, Petals
none. Stamens 10.

Arenaria rossii R. Br.
subsp. *columbiana* (Rauy)
Magnin
var. *apetala* Magnin

Det. Bassett Magnin

apetala form (8)

8004 - July 28, 1951
same place as 8000. Plants
with a narrower less
well developed taproot.
Flowers white.

Arenaria congesta Nutt. ex T. & G.
var. nuttallii *congesta*

det. Bassett Maguire

Arenaria (23)

8005. July 29, 1955
Same place as 8000, ✓
Elev. 10,400. Petals
white, evidently
notched.

Crataegum beringianum
Cham. & Schlecht. var. lat.

det. Bassett Maguire

Crataegum (20)

8006. July 29, 1954
Gentle, open slopes,
and in the shelter of
granitic boulders, atop
the Beartooth Mts., im-
mediately adjacent to
the Wyoming state line,
25 miles southwest
of Red Lodge, Carbon
Co., Mont., Twp. 9 S.,
R. 19 E., S. 32. Elev. 10,300
feet.

Draba incanta Payson

Confirmed by C. L. Hitchcock, 1955

Draba (12)

8007- July 29, 1955
Same place as 8000 ✓
Flowers on some plants
pink, on others white.

Lewisia rediviva (Gray) Rob.

Lewisia

(18)

36

8005 July 30

Open, moraine slopes
along Wyoming Creek,
just above Birch Creek,
13 miles south-west of
Red Lodge, Carbon Co.,
Mont. Twp. 9 S., R. 19 E.,
S. 8. Elev. 7300 feet.

Stems clustered and taproot
and branched caudex. Flowers
purple, withering blue.

Astragalus striatus Nutt.

Astragalus striatus Nutt.

8009 - July 30, 1955

Open, meadow slopes and
flats along Wyoming Creek,
just above Rock Creek, 13
miles southwest of
Red Lodge, Carbon Co.,
Mont. Twp. 9S, R. 19E,
S. 8. Elev. 7200 feet. ~~Ferns~~

Plants with a taproot
and caudex. Flowers
bright purple.

Oxytropis besseyi (Rydb.)

Blank.

var. *besseyi*

Oxytropis

(6)

8010 - July 31, 1955
Open, granitic gentle
slopes, atop the Beartooth
Mts., immediately ad-
jacent to the Wyoming
state line, 25 miles
southwest of Red Lodge,
Carbon Co., Mont. Twp.
9 S., R. 19 E., S. 32. Elev.
10,500 feet. Plants
extensively creeping
underground. Flowers
pink.

Trifolium parryi Gray

Trifolium (20)

8011 - July 31, 1955.

Open, granitic, gentle
slopes atop the Bear
tooth Mts., 25 miles south-
west of Red Lodge,
Carbon Co., Mont. Twp.
9 S., R. 19 E., S. 32. Elev.
10500 feet. Plants
tufted, without
rhizomes.

Deschampsia caespitosa
(L.) Beauv.

15) *Deschampsia*

8012 - July 31, 1955
Same place as 8010. ✓
Elev 10,400 feet.
Plants tufted, without
rhizomes

Agrostis borealis Hartm.,
rel aff.

✓

(10) or *Agrostis*
Small Deschampsia

8013 - July 31, 1955

Same place as 8010. ✓

Elev 10,400 feet.

Plants tufted, without
rhizomes. Herbage
blue-green

Festuca ovina L.

✓

⑧ *Festuca ovina*

8014 - July 31, 1955
Same place as 8010. Elev.
10,400 feet. Plants
tufted, without
rhizomes.

Festuca ovina L.

var. *brachyphylla* (Schult.)
Piper

Seemingly distinct from
8013, the more characteris-
tic phase of *F. ovina*, at this
point.

✓

dwars *Festuca* (12)

8015 - July 31, 1955

Same place as 8010.

Elev 10,400 feet. Plants
tufted, without rhizomes.
Herbage green or less often
blue-glaucous.

Poa repens Nash
det. D. D. Keck

Poa - caerulea (30)

8016 - July 31, 1955
Same place as 8010.
Elev. 10,400 feet.

Plants tufted, without
rhizomes. ~~Herb~~
Herbage blue-glaucous.

Poa incunna Scribn.

↓ Williams

det. D. D. Keck

✓

Poa basal leaves (10)

8017 - July 31, 1955 ✓
Same place as 8010.

Plants scarce, tufted,
without rhizomes.

Poa alpina L. ✓
det. D. D. Keck

① *Poa* - broad linear leaves

8018 - July 31, 1958 ✓
Same place as 8010.
Elev. 10,400 feet.
Plants tufted, without
rhizomes.

Agropyron scribnieri Vasez

✓

Agropyron (20)

8019 - July 31, 1955
Open, granitic, rocky,
gravelly flats atop
the Beartooth Mts. at
first highway summit
southwest of Red Lodge,
in Park Co., Wyoming.
Twp. 58 N, R. 104 W, S 28.
Elev. 10,900 feet. Plants
forming low mats.

Saint petersburgia Rydb.

Saint (10)

8020 - July 31, 1955 ✓
Open, rocky, granitic
slopes atop Beartooth
Mts. just northeast of the
second highway summit
southwest of Red Lodge,
in Park Co., Wyoming.
Twp. 58 N., R. 104 W., S. 29,
Elev. 10,700 feet. Plants
at least sometimes with
an scutell taproots
always rhizomatously
much branched beneath
ground. Ray white, washed
with lavender. pink outside.
Erigeron flabellifolius R. yel.

(19) ✓
Erigeron flabellifolius
white - var.

8021 - July 31, 1955

Same place as 8020. ✓

Petals yellow, finely
cross-angulate with orange
below the middle.

Saxifraga chrysantha Gray

Saxifraga (9)

8022 - July 31, 1955
Same place as 8020.
Petals yellow.

Saxifraga flagellaris
Willd.

rosette yellow saxifrage (1)

8923 - July 31, 1955 ✓
Same place as 8020 -
Petals white.

Lupinus caespitosa L.

at sublarge (5)

8024 July 31, 1955
same place as 8020

Draba paysonii Macbr.
var. *treleasei* (Schulz) Hitchc.,
appr. var. *paysonii*

Confirmed as var. *treleasei* by
C. L. Hitchcock, 1955

woolly *Draba*

8025 - July 31. 1955
Same place as 8020.
Flowers yellow

8025 - *Draba crassifolia* R. Grah.

8025 a *Draba lonchocarpa*
var. *exigua* Scholz

8025 b - *Draba flodiniensis* Wulf

det G. L. Hitchc 1955

Fl. yellow

Green *Draba* (3)

8026 - July 31, 1955
Same place as 8025
Flowers yellow

Draba incerta Payson

Confirmed by C. L. Hitchcock, 1955

Gray *Draba*

8027 - July 31, 1955 ✓
Same place as 8020

✓
Draba lonchocarpa Rydb.
var. *lonchocarpa*

Confirmed by C. L. Hitchcock 1955

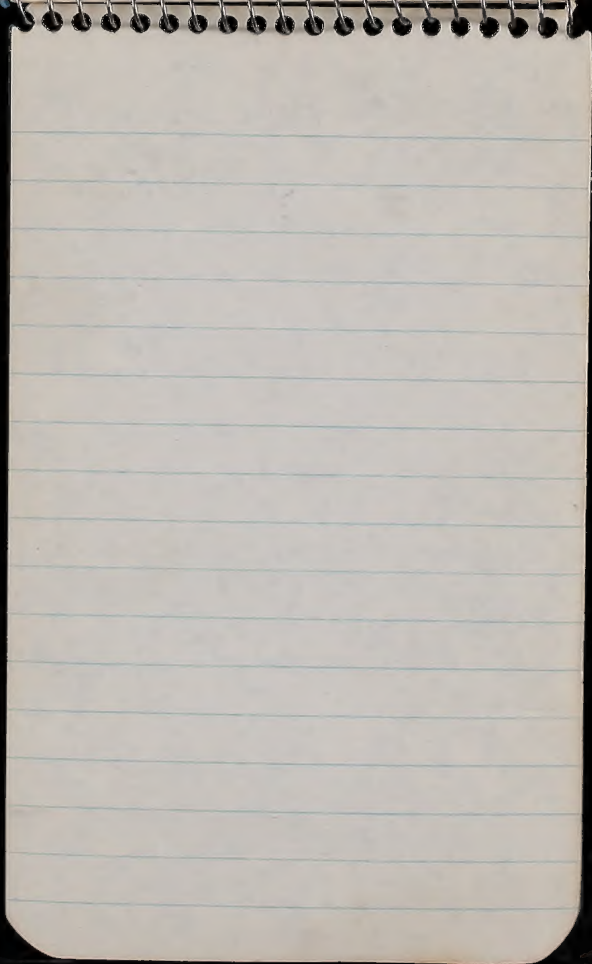
long and slender (1)

8022 - July 31. 1947 ✓
Same place as 8020.
Flowers white.

Draba lonchocarpa
var. *exigua* Schulz

Det. C. L. Hitchc. 1955

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